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PATENT

APPLICATION 10/737,289

ATTORNEY DOCKET 2002-0377 (1014-046)

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method, comprising:
for a call between a local IP network and a remote non-IP network, converting IP packets to PCM robbed bit signaling via a VoIP channelized router, the VoIP channelized router adapted to terminate an IP packet call to a DS0 assignment,
providing the PCM robbed bit signaling to a TDM switch.
2. (Currently Amended) The method of claim 1, further comprising:
converting between IP packets and GR303 call reference values via the VoIP channelized router, the VoIP channelized router adapted to map a DS0 control signal to a GR303 Call reference value that is provisioned from the TDM switch.
3. (Original) The method of claim 1, further comprising:
detecting an off-hook condition of a telephone on the local IP network.
4. (Original) The method of claim 1, further comprising:
receiving, at the VoIP channelized router, an invite message related to an off hook condition of an IP telephone.
5. (Original) The method of claim 1, further comprising:
providing a dial tone to a user of the local IP network.
6. (Original) The method of claim 1, further comprising:
converting an invite message, responsive to an off-hook condition, to a B bit toggle conforming to PCM signaling at the VoIP channelized router; and
forwarding the B bit toggle to the TDM switch.
7. (Original) The method of claim 1, further comprising:
receiving a called party telephone number from the local IP network.

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8. (Currently Amended) The method of claim 1, further comprising:
converting a called party telephone number to PCM signaling, the VoIP channelized router adapted to receive a PCM voice signal at a DS1 card where a DS0 time slot transports the signal to a GR303 hub.
9. (Original) The method of claim 1, further comprising:
providing a called party telephone number to the TDM switch.
10. (Original) The method of claim 1, further comprising:
sending a signal indicative of ringing to the local IP network.
11. (Original) The method of claim 1, further comprising:
receiving a signal indicative of ringing from the TDM switch at the VoIP channelized router.
12. (Original) The method of claim 1, further comprising:
converting a signal indicative of ringing to an invite F8 180 signal at the VoIP channelized router; and
providing the F8 180 signal to the local IP network.
13. (Original) The method of claim 1, further comprising:
receiving an A/B bit toggle from the TDM switch at the VoIP channelized router, the toggle responsive to a signal that a called party has answered the call.
14. (Original) The method of claim 1, further comprising:
converting an A/B bit toggle to an invite 200 message;
providing the invite 200 message to the local IP network.
15. (Currently Amended) The method of claim 1, further comprising:
receiving voice packets from the local IP network at the VoIP channelized router,

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the VoIP channelized router adapted to convert the voice packets to an M24 format, the VoIP channelized router adapted to convert the voice packets to a 15 kHz audio bandwidth in a 64 kb/s serial data stream.

16. (Currently Amended) The method of claim 1, further comprising:

receiving a TDM data sequence from the remote non-IP network at the VoIP channelized router, the VoIP channelized router adapted to encode analog audio signals into 384 kb/s bit streams and utilize six time slots on a DS1 digital transport service.

17. (Original) The method of claim 1, further comprising:

converting voice packets to an 8 bit TDM data sequence via IP packet-to-bit conversion; and
providing the TDM data sequence to the remote non-IP network.

18. (Original) The method of claim 1, further comprising:

converting an 8 bit TDM data sequence to voice packets; and
providing the voice packets to the local IP network.

19. (Currently Amended) A system comprising:

a local VoIP channelized router, the VoIP channelized router adapted to terminate an IP packet call to a DS0 assignment; and
means for communicatively coupling an IP network to a remote non-IP network using said channelized router.

20. (Currently Amended) A machine readable medium storing instructions for activities comprising:

routing a call from an IP network to a remote non-IP network via local VoIP channelized router, the VoIP channelized router adapted to terminate an IP packet call to a DS0 assignment.